Mini-2Bay JBOD / RAID Subsystem, (RAID 0,1 and JBOD selectable) w/ 1*eSATA (SATAII shielding) Connector

User's Manual

1. Product Overview

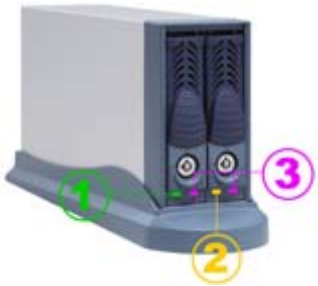
Features:

* Aluminum housing, anodized surface, benefits for cooling and durability
* Small, compact, and light weight
* Backplane design for two removable SATA/SATAII drive trays
* Built-in thermo speed control fan for self-contained ventilation
* Individual key lock of each HDD tray for physical security
* LED indicators on each HDD tray, support HDD activity, HDD fail and FAN Fail (environmental monitoring)
* Built-in RAID 0, 1 or JBOD (selectable)
* Built-in buzzer alarm
* Support RAID 1 mode capability of Hot-Swap, AUTO rebuilding

Descriptions:

External Dual 3.5” HDD Enclosure support Hardware RAID, Host Interface support e-SATA.

Specifications:

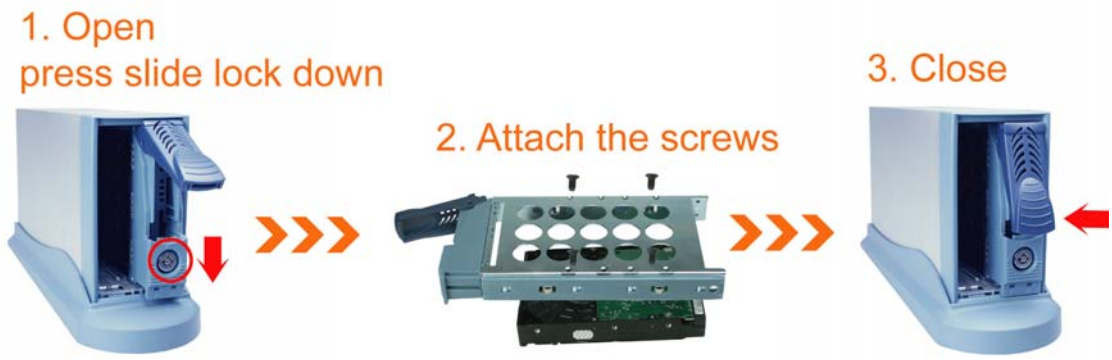
Host Interface	e-SATA
HDD Interface	SATAI, II
Data Transfer Rate	SATA 1.5/3.0 Gbps
RAID Level	Hardware RAID 0 , 1 and JBOD (selectable)
Hot-Swap	Both on Host and Device
LED Display	 **1 and 2 LED for HDD and Fan status** HDD present -->LED on -> Fan OK –White color -> Fan Fail – Red color No HDD → LED Off **3.LED for each HDD** Access-->blue Fail-->red Rebuilding-->pink/blue flashing

Alarm	Mutable buzzer alarm for Fan fail or HDD fail.
Environment Monitor	Fan Detect – Fan speed too low or fan stop HDD status detect
Power Supply	External Power Adapter (AC input:100-240V~1.0A 50-60Hz / DC output:+5V/2A,+12V/2A)
Cooling	4.0 x 4.0 x 1.0 mm cooling Fan with FAN speed detect
O.S. support	OS independent
System Required	SiI3132 PCI-Express or SiI3124 PCI-X for JBOD mode
Dimension	Enclosure only: (L):23.5cm (W):6.5cm (H):12cm Including Stand: (L):26.9cm (W):8.7cm (H):14.1cm
Material	Plastic and Aluminum alloy

Package Content:

- Enclosure x 1
- Stand x 1
- HDD Tray x 2
- SATAII Shielding Cable x 1
- Power Adapter w/ Power Cord x 1
- Manual CD-ROM x1
- Hard Disk Drive mounting screw x 8
- Key for HDD tray x 2

2. Quick Installation Guide



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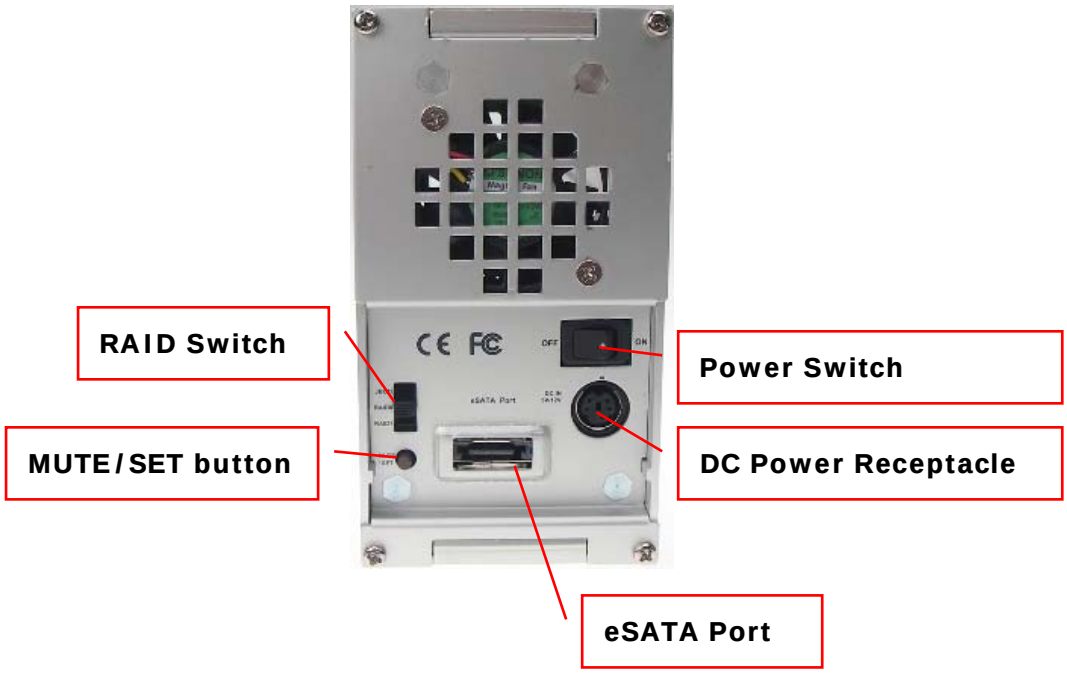
a. Connect SATA cable from host to SATA port.
b. Connect power cord from power adapter to DC power receptacle.
c. Select RAID level, RAID 0(striping), RAID1(mirroring) or JBOD (dual-disk).
d. Turn on power switch, then you can start playing this unit.



3. RAID Level Re-configuration

For re-configuring the RAID level, please

1. Change RAID level
2. Turn off power
3. Press the “SET” button and turn on power at the same time.

※ CAUTION: After changing the RAID level, HDDs will be reconfigured on restarting the device.

4. AUTO-Rebuilding / Hard-Copy – RAID 1 support only

Auto rebuilding can be applied for data security, which ensures the data recover with AUTO rebuilding function.

For hot-swapping,

1. Remove one HDD from any of equipped subsystem without shutting down the Operating System.
2. Keep accessing with the HDD left, you’d hear the buzzer beeping due to the missing HDD.
3. Re-plug the removed HDD, then buzzer will stop beeping and you’ll see the LED for HDD flashing while AUTO rebuilding.

5. Frequently Asked Questions

Q: Why RAID 0 works well, but RAID 1 seems not work?
A: Please reconfigure the RAID chip – just refer to RAID Level Reconfiguration.

Q: Why RAID 1 works well, but RAID 0 seems not work?
A: Please reconfigure the RAID chip – just refer to RAID Level Reconfiguration.

Q: Why does the Buzzer keep beeping?
A: Please refer to **LED Display** of Product Overview to check:

1) if the fan/tempt error,
   - ■ the environment might be too hot, or you've run the subsystem too long.
   - → please try to make your environment cooler or let your subsystem take a short rest
   - ■ higher rpm (i.e. Western Digital Raptor 10K rpm) or various brand HDDs may create more heat inside enclosure
   - → according to our internal test, Seagate HDDs are less hot

2) if HDD fail, under RAID 1 mode
   - ■ you may just swap one HDD,
   - → please plug another HDD ASAP

   ※ Caution: only RAID1 mode can support hotswap, the subsystem will start AUTO rebuilding after re-plugging the removed HDD
   - ■ Or, one HDD may fail,
   - → please replace your HDD

   ※ Caution: only RAID1 mode can support hotswap, the subsystem will start AUTO rebuilding after re-placing HDD

3) if HDD fail, under RAID 0 mode
   - ■ you may just swap one HDD, or one HDD may fail,
   - → unfortunately, we have to inform you the RAID volume just crashed, just kiss your data goodbye.

   ※ Caution: RAID0 mode can't support hotswap, HDD fail or swap the HDD may cause data destroyed

Q: If powering off during AUTO rebuilding will it start from beginning or continue from the last track?
A: Continue from the last track.